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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/051,709	01/18/2002	Norio Sugiura	3408.65878	1395	
7	590 03/12/2003				
Patrick G. Burna, Esq. GREER, BURNS & CRAIN, LTD. Suite 2500			EXAMINER		
			PARKER, KENNETH		
300 South Wacker Dr. Chicago, IL 60606			ART UNIT	PAPER NUMBER	
			2871		
			DATE MAILED: 03/12/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary		Application No.	Applicant(s)				
		10/051,709	SUGIURA ET AL.				
		Examiner	Art Unit				
*	•	Kenneth A Parker	2871	,			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1)	Responsive to communication(s) filed on						
2a)□		is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
· ·	ion of Claims						
4)⊠	4) Claim(s) See Continuation Sheet is/are pending in the application.						
د،ات	4a) Of the above claim(s) is/are withdrawn from consideration.						
	Claim(s) is/are allowed.						
•	Claim(s) is/are rejected.						
	Claim(s) is/are objected to.						
8) Claim(s) 1-3,5-8, 10-11, 13, 15-18, 20-24, 26-28, 30, 32-34, 36-38, 40-43, 45, 48-49, 51-56, 59-60, 63, 65, 68-69 71, 73 are subject to restriction and/or election requirement. Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)⊠ All b)□ Some * c)□ None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
2) Notic	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) Notice of	Summary (PTO-413) Paper No(s) nformal Patent Application (PTO-152)				

PTO-326 (Rev. 04-01) Office Action Summary Part of Paper No. 5 Continuation of Disposition of Claims: Claims pending in the application are 1-3, 5-8,10,11,13,15-18,20-24,26-28,30,32-34,36-38,40-43,45,48,49,51-56,59,60,63,65,68,69,71 and 73.

DETAILED ACTION

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Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-2, 5-8, 10-11, 30, 32-33, 34, 36-38, 40-42, drawn to a method of making a reflective substrate a material having two different deforming characteristics, classified in class 438, subclass 30.
- II. Claims 3 and 7, drawn to a method of making a reflective substrate using a polymer having a particular composition, classified in class 428, subclass 1.1.
- III. Claims 13, 15-18, 21-22, 43,45,48, 49, 51-54 drawn to a reflector with undulations having particular inclinations, classified in class 349, subclass 113.
- IV. Claims 23-24, 26-28, drawn to a combination of a scattering means and reflector, classified in class 349, subclass 86.
- V. Claims 55-56, 71, 73, drawn to a combination of a reflector and an absorbing layer, classified in class 349, subclass 113.
- VI. Claim 59-60, 63, 65, 68-69, drawn to a liquid crystal device with a waveguide with a low index of refraction layer, classified in class 349, subclass 63.

Art Unit: 2871

Inventions I and III are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the reflector can be made by depositing one layer and making bumps from it with a single characteristic.

Inventions I and IV are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the reflector can be made by depositing one layer and making bumps from it with a single characteristic.

Inventions I and V are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the reflector can be made by depositing one layer and making bumps from it with a single characteristic.

Art Unit: 2871

Inventions I and VI are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the reflector can be made by depositing one layer and making bumps from it with a single characteristic.

Inventions II and III are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the reflector can be made by depositing one layer and making bumps from a different polymer.

Inventions II and IV are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the reflector can be made by depositing one layer and making bumps from a different polymer.

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Inventions II and V are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the reflector can be made by depositing one layer and making bumps from a different polymer.

Inventions II and VI are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the reflector can be made by depositing one layer and making bumps from a different polymer.

Inventions IV and III are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention reflector has separate utility such as with a TN type device. See MPEP § 806.05(d).

Inventions IV and V are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are

shown to be separately usable. In the instant case, invention reflector has separate utility such as with a TN type device. See MPEP § 806.05(d).

Inventions IV and VI are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention reflector has separate utility such as with a TN type device. See MPEP § 806.05(d).

Inventions II and I are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, a different material can be used. See MPEP § 806.05(d).

Inventions V and V are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention reflector has separate utility such as with a device with out a lower index of refraction material. See MPEP § 806.05(d).

Inventions III and V are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and

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(2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because a flat reflector can be used, or one with undulations different than those defined. The subcombination has separate utility such as in a device with out the light absorbing film.

Inventions III and V are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because a flat reflector can be used, or one with undulations different than those defined. The subcombination has separate utility such as in a device with out the low index of refraction film.

Because these inventions are distinct for the reasons given above and the search required for each group in their main subs are not required for the other groups, excepting those requiring a search in 113, with group V requiring an additional search in 110 and 349/61, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth A Parker whose telephone number is 703-305-6202. The examiner can normally be reached on 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H. Kim can be reached on 305-3492. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 308-0956.

Kenneth A Parker Primary Examiner Art Unit 2871

March 9, 2003